

Docket Nos. 50-250
and 50-251

August 15, 1984

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ACRS(10)

Mr. J. W. Williams, Jr., Vice President
Nuclear Energy Department
Florida Power and Light Company
Post Office Box 14000
Juno Beach, Florida 33408

Dear Mr. Williams:

SUBJECT: SAFETY PARAMETER DISPLAY SYSTEM (SPDS) IMPLEMENTATION PLAN AND
PARAMETER SELECTION REPORT - REQUEST FOR ADDITIONAL INFORMATION

By letter dated May 1, 1984, you provided your response to Generic Letter (GL) 82-33 in relation to the SPDS. Regional workshops discussing the requirements and the staff's review of the SPDS were held during March 1983, to augment the requirements defined in NUREG-0737, Supplement-1 (GL 82-33).

Prompt implementation of the SPDS in operating reactors is a design goal of prime importance. The staff is currently reviewing your request and needs the additional information identified in the enclosure to this letter. The request is in relation to the electrical isolation devices, human factors aspects and method used for data validation. To meet our review schedule, we request this information be provided within 45 days from receipt of this letter.

The reporting and/or recordkeeping requirements of this letter affect fewer than ten respondents; therefore, OMB clearance is not required under P.L. 96-511.

/s/SVarga

Steven A. Varga, Chief
Operating Reactors Branch #1
Division of Licensing

Enclosure:
As stated

cc w/enclosure:
See next page

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DMcDonald;ps
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SVarga
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SECRET
NOV 1954
OFFICE OF THE
DIRECTOR
CENTRAL INTELLIGENCE
AGENCY
WASHINGTON, D.C.

CONFIDENTIAL

Mr. J. Edgar Hoover
Director
Federal Bureau of Investigation
Washington, D.C.

Dear Mr. Hoover:

Reference is made to your letter of October 28, 1954, regarding the above captioned matter.

The Bureau is currently reviewing the information provided to it by the Central Intelligence Agency regarding the activities of the Communist Party, USA, in the United States.

In view of the fact that the Central Intelligence Agency has provided information regarding the activities of the Communist Party, USA, in the United States, it is requested that you continue to provide information regarding the activities of the Communist Party, USA, in the United States.

The Bureau is currently reviewing the information provided to it by the Central Intelligence Agency regarding the activities of the Communist Party, USA, in the United States.

Very truly yours,
Director

Enclosure

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J. W. Williams, Jr.
Florida Power and Light Company

Turkey Point Plants
Units 3 and 4

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REQUEST FOR ADDITIONAL INFORMATION
CONCERNING THE
TURKEY POINT 3 & 4
SAFETY PARAMETER DISPLAY SYSTEM

Each operating reactor shall be provided with a Safety Parameter Display System (SPDS). The Commission approved requirements for an SPDS are defined in NUREG-0737, Supplement 1. In the Regional Workshops on Generic Letter 82-33 held during March 1983, the NRC discussed these requirements and the staff's review of the SPDS.

Prompt implementation of the SPDS in operating reactors is a design goal of prime importance. The staff's review of SPDS documentation for operating reactors called for in NUREG-0737, Supplement 1, is designed to avoid delays resulting from the time required for NRC staff review. The NRC staff will not review operating reactor SPDS designs for compliance with the requirements of Supplement 1 of NUREG-0737 prior to implementation unless a preimplementation review has been specifically requested by licensees. The licensee's Safety Analysis and SPDS Implementation Plan will be reviewed by the NRC staff only to determine if a serious safety question is posed or if the analysis is seriously inadequate. The NRC staff review to accomplish this will be directed at: (a) confirming the adequacy of the parameters selected to be displayed to detect critical safety functions, (b) confirming that means are provided to assure that the data displayed are valid, (c) confirming that the licensee has committed to a human factors program to ensure that the displayed information can be readily perceived and comprehended so as not to mislead the operator, and (d) confirming that SPDS will be suitably isolated from electrical and electronic interference with equipment and sensors that are used in safety systems. If based on this review the staff identifies a serious safety question or seriously inadequate analysis, the Director of IE or the Director of NRR may require or direct the licensee to cease implementation.

The staff reviewed the SPDS safety analysis and implementation plan provided by Florida Power & Light (Reference 1). The staff was unable to complete its evaluation because of insufficient information. The following additional information is required to complete the SPDS evaluations:

- ISOLATION DEVICES

- a. For each type of device used to accomplish electrical isolation, describe the specific testing performed to demonstrate that the device is acceptable for its application(s). This description should include elementary diagrams when necessary to indicate the test configuration and how the maximum credible faults were applied to the devices.

- b. Data to verify that the maximum credible faults applied during the test were the maximum voltage/current to which the device could be exposed, and define how the maximum voltage/current was determined.
- c. Data to verify that the maximum credible fault was applied to the output of the device in the transverse mode (between signal and return) and other faults were considered (i.e., open and short circuits).
- d. Define the pass/fail acceptance criteria for each type of device.
- e. Provide a commitment that the isolation devices comply with the environmental qualifications (10 CFR 50.49) and with the seismic qualifications which were the basis for plant licensing.
- f. Provide a description of the measures taken to protect the safety systems from electrical interference (i.e., Electrostatic Coupling, EMI, Common Mode and Crosstalk) that may be generated by the SPDS.

- HUMAN FACTORS PROGRAM

Provide a description of the display system, its human factored design, and the methods used and results from a human factors program to ensure that the displayed information can be readily perceived and comprehended so as not to mislead the operator.

- DATA VALIDATION

Describe the method used to validate data displayed in the SPDS. Also, describe how invalid data is defined to the operator.

REFERENCE

1. Letter from J. W. William (FP&L) to D. G. Eisenhut (NRC) dated May 1, 1984 (with attachment).